

Title (en)

IN-TANK DISPENSER WITH FLEXIBLE SUPPORTED VALVE HEAD

Title (de)

ABGABEVORRICHTUNG MIT FLEXIBLEM, UNTERSTÜTZTEM VENTILKOPF ZUM EINBAU IN EINEN TANK

Title (fr)

DISTRIBUTEUR DANS UN RESERVOIR A VALVE A TETE SUPPORTEE SOUPLE

Publication

**EP 1442176 A1 20040804 (EN)**

Application

**EP 03752449 A 20030919**

Priority

- US 0329291 W 20030919
- US 28220002 A 20021025

Abstract (en)

[origin: US2004078879A1] A toilet tank cleanser dispenser has a receiving holster suitable to receive an inverted container of cleaning composition and suitable to dose liquid from the container. The adapter has an internal dosing shuttle for metering an aliquot of cleanser through an opening at the bottom of the adapter defining a valve seat. A float can move up and down with respect to the liquid level in the tank to drive an outlet valve against an outlet of the adapter. The present invention focuses on the balloon-like structure of a valve head driven by the float. For example, a low density thin wall polyethylene valve head can be supported by a trapped air pocket to reduce leakage, permit some flexibility, and avoid permanent deformation.

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**E03D 9/03**

IPC 8 full level

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